

# Low Pass Filter

## WGLL-00400

50Ω

DC to 400 MHz

Ver. B

2021.02.23

### Maximum Rating

Operating Temperature -55°C~+100°C

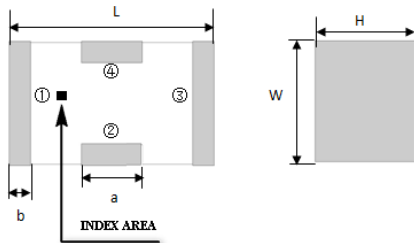
Storage Temperature -55°C~+100°C

RF Input Power 5W max at 25°C

### Pin Connections

RF Input	1
RF Output	3
Ground	2,4

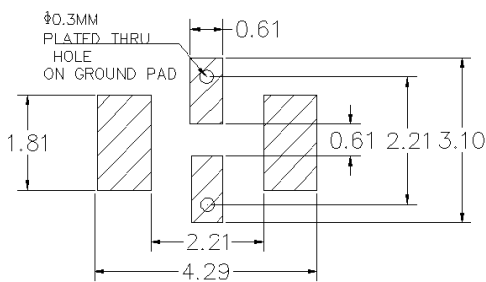
### Outline Drawing



### Outline Dimension(mm)

W	L	H
1.6±0.2	3.2±0.2	1.0±0.2
a	b	
0.8±0.1	0.5±0.1	

### PCB Land Pattern(mm)



SUGGESTED LAYOUT

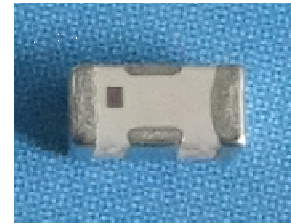
TOLERANCE TO BE WITHIN ±0.05mm

### Features

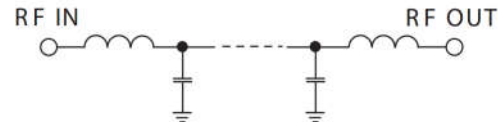
- High Performance
- Small Size
- Wide Band
- Ultra Low I.L.
- Temperature Stable
- LTCC Structure

### Application

- Harmonic Rejection
- Transmitters/Receivers
- Lab Use



RoHS Compliant



Functional Schematic

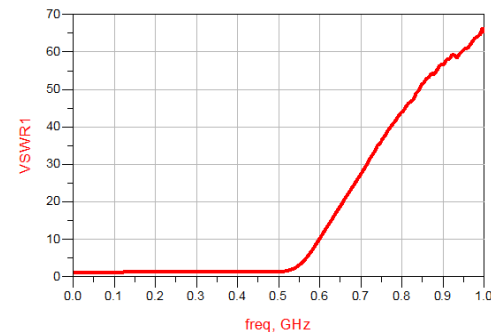
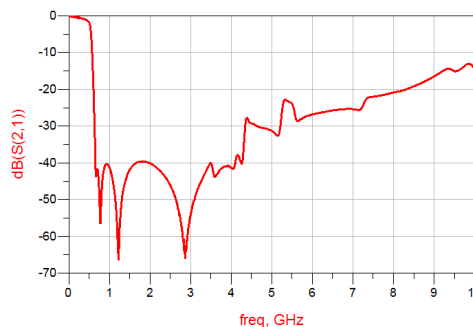
### Electrical Specifications<sup>(1)</sup> at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit	
Pass Band	Insertion Loss	DC-400	-	1.0	1.2	dB
	Freq. Cut-off	525	-	3.0	-	dB
	VSWR	DC-400	-	1.2	1.5	:1
Stop Band	Rejection Loss	660	20	30	-	dB
		680-3000	20	30	-	dB
		5500	15	25	-	dB

(1) Test on our Demo Board.

### Typical Performance at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	0.08	1.02
100	0.21	1.15
400	0.95	1.3
560	7.9	4.07
680	42.18	24.1
700	44	27.39
1000	41.7	65.54
2000	40.15	74.3
2500	46.1	81.53
3000	54.2	86.56
4000	41.33	78.3
5000	31.3	46.4
5500	23.96	15.33
6000	26.8	47.8
7000	25.37	42.6



### Notes:

- The specifications are tested at 25°C±5°C, relative humidity 55~75%.
- Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



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